

EMC TEST REPORT

Report No. : ACS-E16517

Applicant : TPV Display Technology (Wuhan) Co., Ltd.
Unique No.11 Zhuankou Development District
of Economic Technological Development Zone
Wuhan City,P.R.China.

Product : LCD Monitor

Model No. : E2270SW**

Serial No. : 215LM00041

Brand : AOC

Test Lab. : Audix Technology (Shenzhen) Co., Ltd.
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Date of Test : Nov.30~Dec.14, 2016

Date of Report : Dec.19, 2016



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TEST REPORT VERIFICATION

Applicant : TPV Display Technology (Wuhan) Co., Ltd.
Product : LCD Monitor
Model No. : E2270SW**
Serial No. : 215LM00041
Brand : AOC
Report No. : ACS-E16517
Power Supply : AC 100-240V, 50-60Hz
Test Voltage : AC 230V/50Hz, AC 100V/50Hz
Standards : EN 55032: 2012+AC: 2013 (Class B)
CISPR 32: 2012 (AS/NZS CISPR 32: 2013)

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of test. Also, this report shows that the EUT is technically compliant with the requirements of EN 55032 standard.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd.

Date of Test : Nov.30~Dec.14, 2016 Report of date: Dec.19, 2016

Prepared by : Olivia Zheng Assistant
Reviewed by : Bensun Chen Deputy Manager



Approved & Authorized Signer :

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	Remark
Conducted Emission at mains terminals	EN 55032: 2012+AC: 2013	PASS	Meets Class B Minimum passing margin is 16.07dB at 0.211MHz
Conducted Emission at telecommunication port	EN 55032: 2012+AC: 2013	N/A	N/A
Radiated Emission (30-1000MHz)	EN 55032: 2012+AC: 2013	PASS	Meets Class B Minimum passing margin is 4.00 dB at 219.15MHz
Radiated Emission (1-6GHz)	EN 55032: 2012+AC: 2013	PASS	Meets Class B Minimum passing margin is 14.12 dB at 2255.79MHz

2. GENERAL INFORMATION

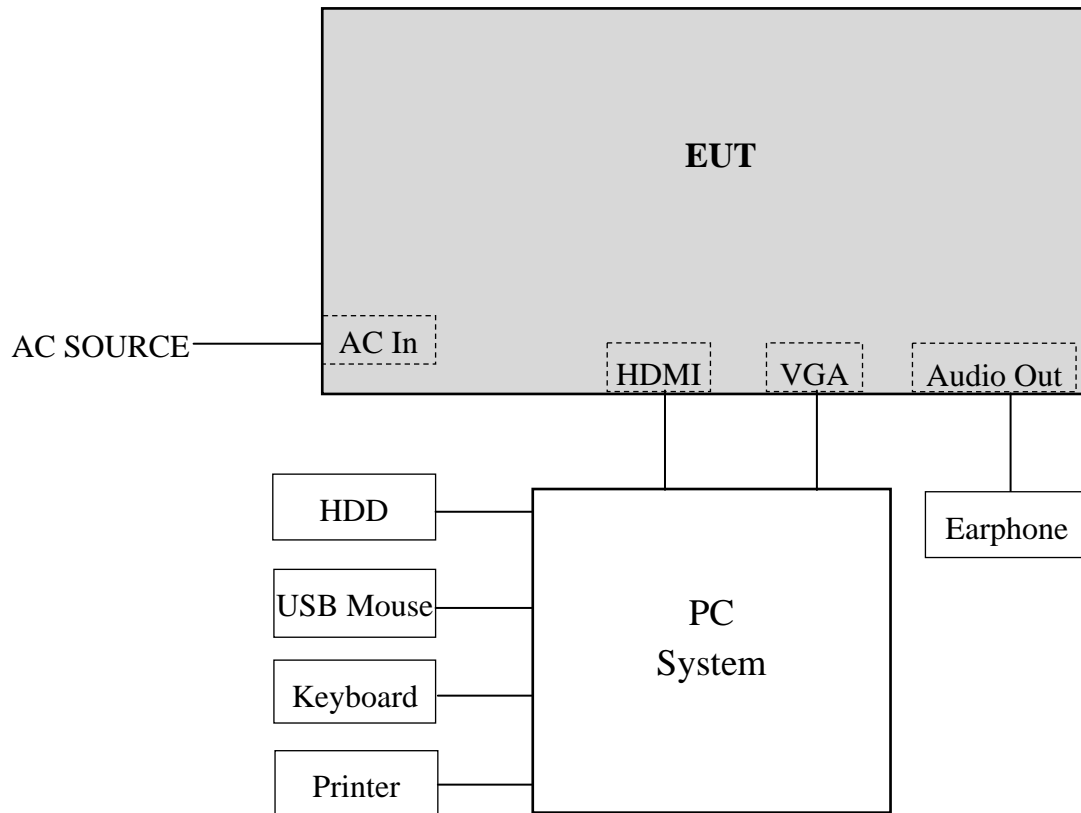
2.1. Description of Device (EUT)

Product	:	LCD Monitor
Model No.	:	E2270SW**
Serial No.	:	215LM00041 Above all modes difference are in sale marketing.
Brand	:	AOC
Test Model	:	E2270SW**
Applicant	:	TPV Display Technology (Wuhan) Co., Ltd. Unique No.11 Zhuankou Development District of Economic Technological Development Zone Wuhan City, P.R.China
Max Resolution	:	1920*1080@60Hz
Max Work Frequency	:	135MHz
I/O Port	:	(1)One AC Port (2)One VGA Port (3)One HDMI Port (4)One Audio Out Port
Power Cord	:	Unshielded, Detachable, 1.8m/1.5m/1.2m (3 pins)
VGA Cable	:	Shielded, Detachable, 1.8m/1.2m (Bond two ferrite cores) Shielded, Detachable, 1.5m (Bond one ferrite core)
HDMI Cable	:	Shielded, Detachable, 1.8m/1.5m/1.2m
Date of Test	:	Nov.30~Dec.14, 2016
Date of Receipt	:	Nov.27, 2016
Sample Type	:	Prototype production

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Personal Computer	Test PC W	DELL	Optiplex 9020MT	27455813534
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)			
2.	USB Keyboard	ACS-EMC- K03R	DELL	SK-81220	CN-ODJ365-7161 6-2BE-0DCE-A00
		USB Cable: shielded, Undetachable, 2.0m			
3.	USB Mouse	ACS-EMC-M03R	DELL	M0C5UO	512023253
		USB Cable: shielded, Undetachable, 1.8m			
4.	Printer	ACS-EMC-PT04	HP	C9079A	N/A
		USB Cable: Shielded, Detachabled, 1.8m Power Cord: Unshielded, Detachabled, 1.8m			
5.	Headphone	ACS-EMC-EP01	OVANN	OV880V	N/A
		Cable: Shielded, Undetachabled, 4.0m			
6.	HDD	ACS-EMC-HDD01	Terasys	F12-UF	A0100215-53900 31
		USB Cable: Shielded, Detachable, 1.8m			

2.3. Block Diagram of connection between EUT and simulators



(EUT: LCD Monitor)

2.4. Test Facility

Site Description

- Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District, Shenzhen, Guangdong, China
- 3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Jul.12, 2017
- 3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Jul.12, 2017
- EMC Lab. : Certificated by DAkkS, Germany
Registration No: D-PL-12151-01-00
Valid Date: Dec.07, 2021
- Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2017

2.5. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 2 Conduction	2.4dB (150kHz to 30MHz)
Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m)	3.0dB (30~200MHz, Polarization: H)
	3.0dB (30~200MHz, Polarization: V)
	3.4dB (200M~1GHz, Polarization: H)
	3.4dB (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz)	4.4dB (1-6GHz, Distance: 3m)
	5.4dB (6-18GHz, Distance: 3m)
Uncertainty for SVSWR in 10m Chamber	2.8dB (1-6GHz,Distance: 3m)
	2.8dB (6-18GHz,Distance: 3m)

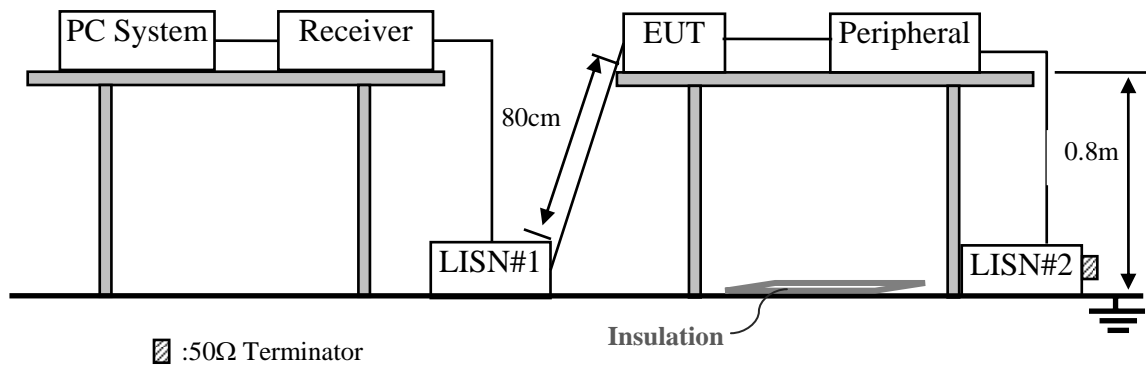
3. CONDUCTED DISTURBANCE AT MAINS TERMINALS TEST

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	2# Shielding Room	AUDIX	N/A	N/A	Apr.17,16	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESR3	101931	Apr.24,16	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV4200	100041	Apr.24,16	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	Apr.23,16	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	May.05,16	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	May.05,16	1 Year
7.	RF Cable	Fujikura	RG-55/U	No.1	Apr.24,16	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.23,16	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Test Standard

EN 55032: 2012+AC: 2013 Class B

3.4. Power Line Conducted Emission at Mains Terminals Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.5. EUT Configuration on Test

The following equipments are installed on Conducted Emission Test to meet EN 55022 requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.5.1. LCD Monitor (EUT)

Model No : E2270SW**

Serial No : 215LM00041

3.5.2. Support Equipment : As Tested Supporting System Detail, in Section 2.2.

3.6. Operating Condition of EUT

3.6.1. Setup the EUT and simulator as shown as Section 3.2.

3.6.2. Turn on the power of all equipments.

3.6.3. PC system sent “Color Bars with moving picture element (ITU-R BT 1729)” to LCD Monitor (EUT) through VGA card.

3.6.4. The PC system was running the program “1kHz playing” and sending sound to EUT.

3.6.5. DVD Mode: The DVD player played DVD Disk and sent “DVD 1kHz Signal Playing” image to the LCD Monitor (EUT).

3.6.6. The other peripheral devices were driven and operated in turn during all testing.

3.6.7. The EUT is designed with AC power of rating AC 100V-240V, 50/60Hz. AC 230V/50Hz & AC 100V/50Hz (for EN55032 & CISPR 32 & AS/NZS CISPR 32) had been covered during the pre-test. The worst data was found at AC 230V/50Hz and recorded in the applied test report.

3.7. Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N. #2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to EN 55032 Class B on conducted Disturbance test.

The bandwidth of test receiver (R & S ESR3) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test results of the conducted disturbance are recorded in section 3.8.

3.8. Conducted Disturbance at Mains Terminals Test Results
PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor

Model No. : E2270SW**

Test Date: Dec.14, 2016

Temperature: 23.3°C

Humidity: 51.3%

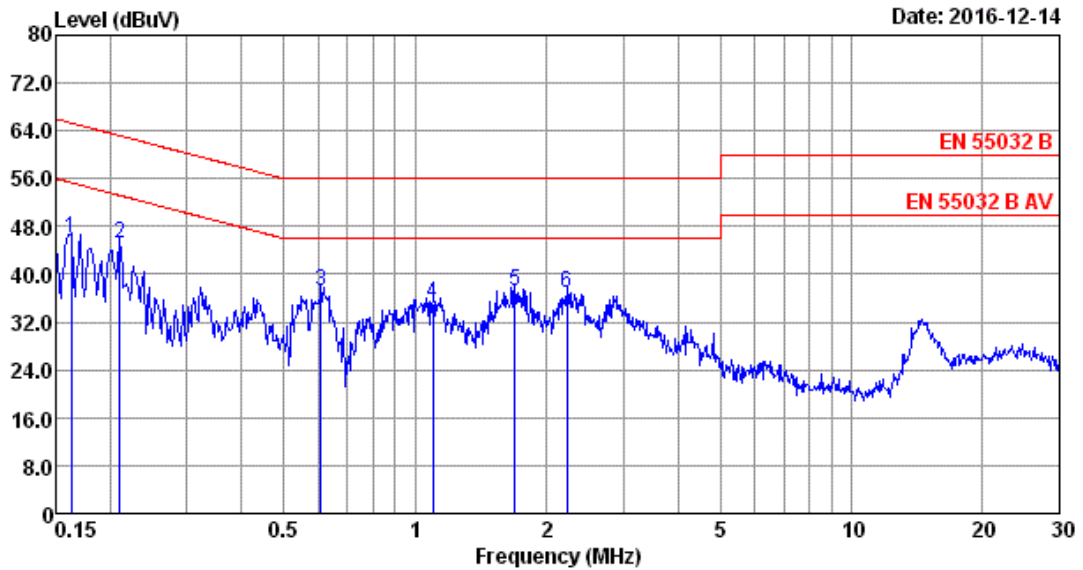
Pressure: 101.7kPa

No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency	
1.	AC 230V/50Hz	PC Mode	HDMI	1.8m	640*480@60Hz	
2.					1280*1024@75Hz	
3.					1920*1080@60Hz	
4.				1.5m	1920*1080@60Hz	
5.				1.2m	1920*1080@60Hz	
6.			VGA	1.8m	640*480@60Hz	
7.					1280*1024@75Hz	
8.					1920*1080@60Hz	
9.			DVD Mode	HDMI	1.8m	Color Bar
10.			Standby	---	---	---
11.	AC 100V/50Hz	PC Mode	HDMI	1.8m	1920*1080@60Hz	

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency	Reference Test Data No.	
						Line	Neutral
1.	AC 230V/50Hz	PC	HDMI	1.8m	1920*1080@60Hz	# 3	# 4

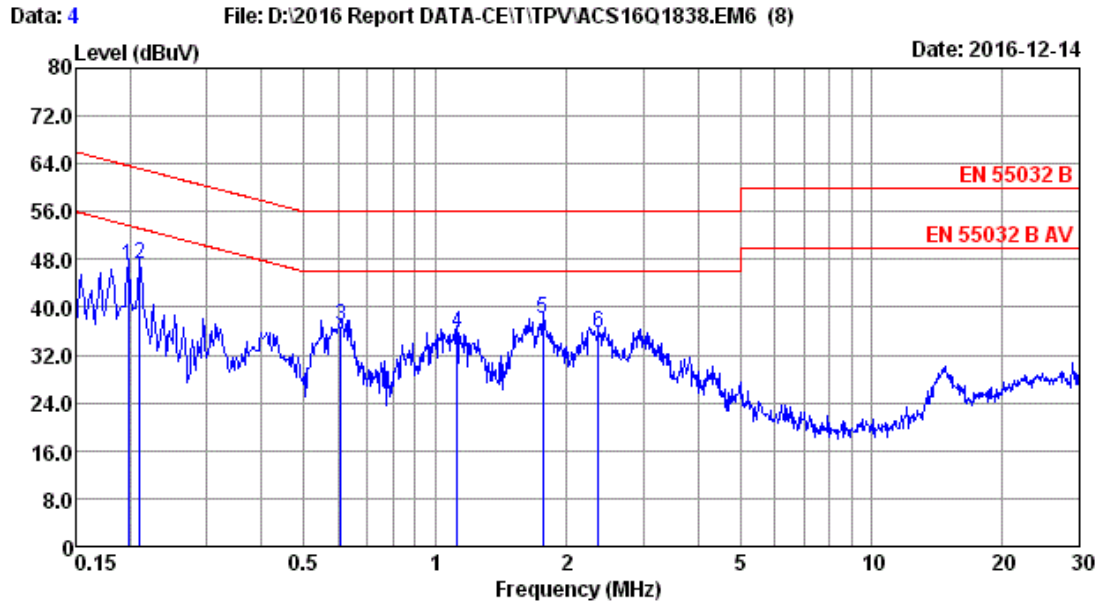
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Site no	:2# Conduction	Data No	:3
Dis./Lisn	:16 ENV4200 L	LISN phase:	LINE
Limit	:EN 55032 B	Pre	:101.7kPa
Env./Ins.	:23.3°C/51.3%	Engineer	:Garry
EUT	:E2270SW**		
Power Rating	:AC 230V/50Hz		
Test Mode	:HDMI:1920*1080@60Hz		
	Line:1.8m		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.162	9.24	0.01	36.73	45.98	65.34	19.36	QP
2	0.211	9.18	0.01	35.99	45.18	63.18	18.00	QP
3	0.608	9.23	0.02	27.97	37.22	56.00	18.78	QP
4	1.100	9.25	0.12	25.80	35.17	56.00	20.83	QP
5	1.689	9.23	0.11	27.84	37.18	56.00	18.82	QP
6	2.225	9.23	0.10	27.54	36.87	56.00	19.13	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



Site no	:2# Conduction	Data No	:4
Dis./Lisn	:16 ENV4200 N	LISN phase:	NEUTRAL
Limit	:EN 55032 B	Pre	:101.7kPa
Env./Ins.	:23.3°C/51.3%	Engineer	:Garry
EUT	:E2270SW**		
Power Rating	:AC 230V/50Hz		
Test Mode	:HDMI:1920*1080@60Hz		
	Line:1.8m		

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.198	9.18	0.01	37.82	47.01	63.71	16.70	QP
2	0.211	9.18	0.01	37.92	47.11	63.18	16.07	QP
3	0.608	9.19	0.02	27.69	36.90	56.00	19.10	QP
4	1.123	9.21	0.12	26.46	35.79	56.00	20.21	QP
5	1.762	9.23	0.11	28.61	37.95	56.00	18.05	QP
6	2.371	9.23	0.10	26.43	35.76	56.00	20.24	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED DISTURBANCE MEASUREMENT

4.1. Test Equipments

4.1.1. For frequency range 30MHz~1000MHz (In 10m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber	AUDIX	N/A	N/A	Mar.01,16	1 Year
2.	Signal Analyzer	R&S	FSV30	103669	Nov.02,16	1 Year
3.	Signal Analyzer	R&S	FSV30	103670	Nov.02,16	1 Year
4.	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.15,16	1 Year
5.	Amplifier	EMCI	EMC9135	980347	Sep.26,16	1 Year
6.	Amplifier	EMCI	EMC9135	980348	Sep.26,16	1 Year
7.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	Jun.03,16	1 Year
8.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-429	Jan.08,16	1 Year
9.	RF Cable	MIYAZAKI	CFD400NL-LW	No.5	Sep.26,16	1 Year
10.	RF Cable	MIYAZAKI	CFD400-NM-NM	160727+160728	Sep.26,16	1 Year
11.	Attenuator	EMCI	EMCI-N-6-06	AT-N0649	Sep.26,16	1 Year
12.	Attenuator	EMCI	EMCI-N-6-06	AT-N0650	Sep.26,16	1 Year
13.	Coaxial Switch	Anritsu	MP59B	6201397220	Apr.23,16	1 Year
14.	Coaxial Switch	Anritsu	MP59B	6201397221	Apr.23,16	1 Year
15.	Coaxial Switch	Anritsu	MP59B	620313662	Apr.23,16	1 Year
16.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

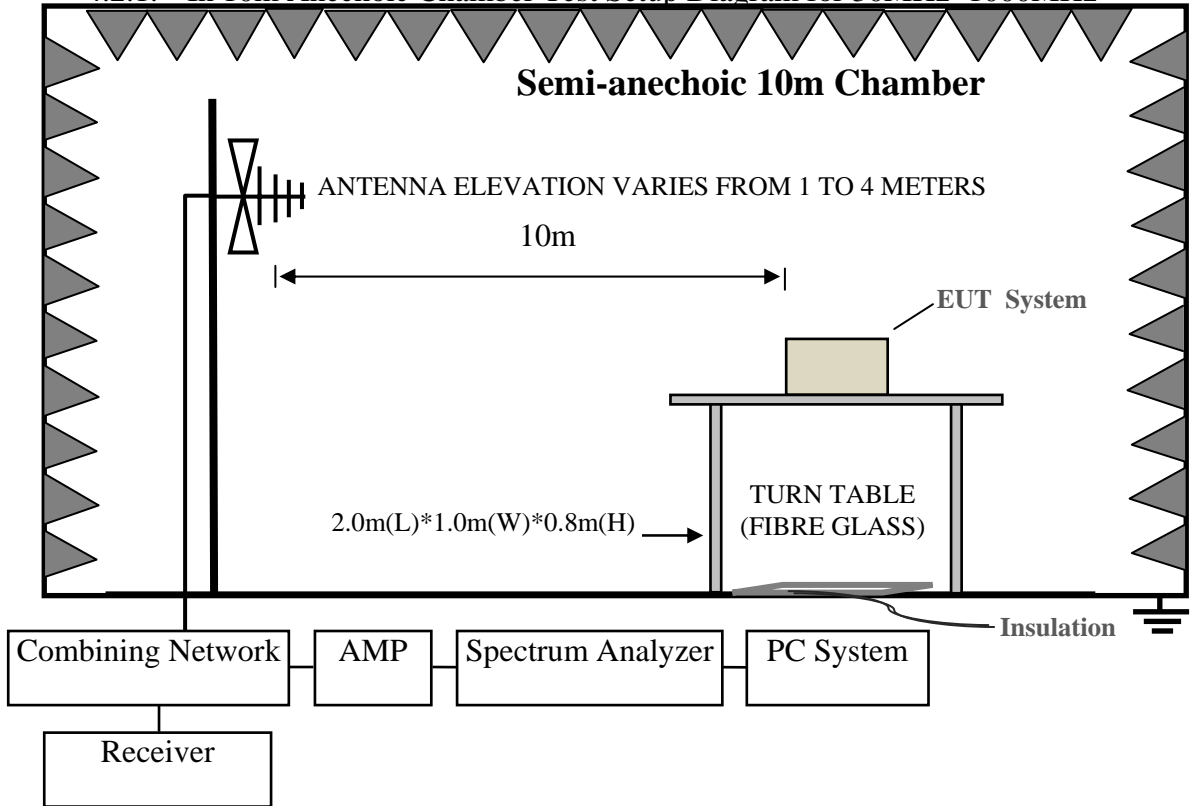
4.1.2. For frequency range 1GHz~6GHz (In 10m Anechoic Chamber)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber	AUDIX	N/A	N/A	Mar.21,16	1 Year
2.	EMC Analyzer	Agilent	N9030A	MY51380221	Oct.15,16	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Apr.11,16	1 Year
4.	Amplifier	Agilent	83017A	MY53270085	May.17,16	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	505239/6	Apr.24,16	1 Year
6.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

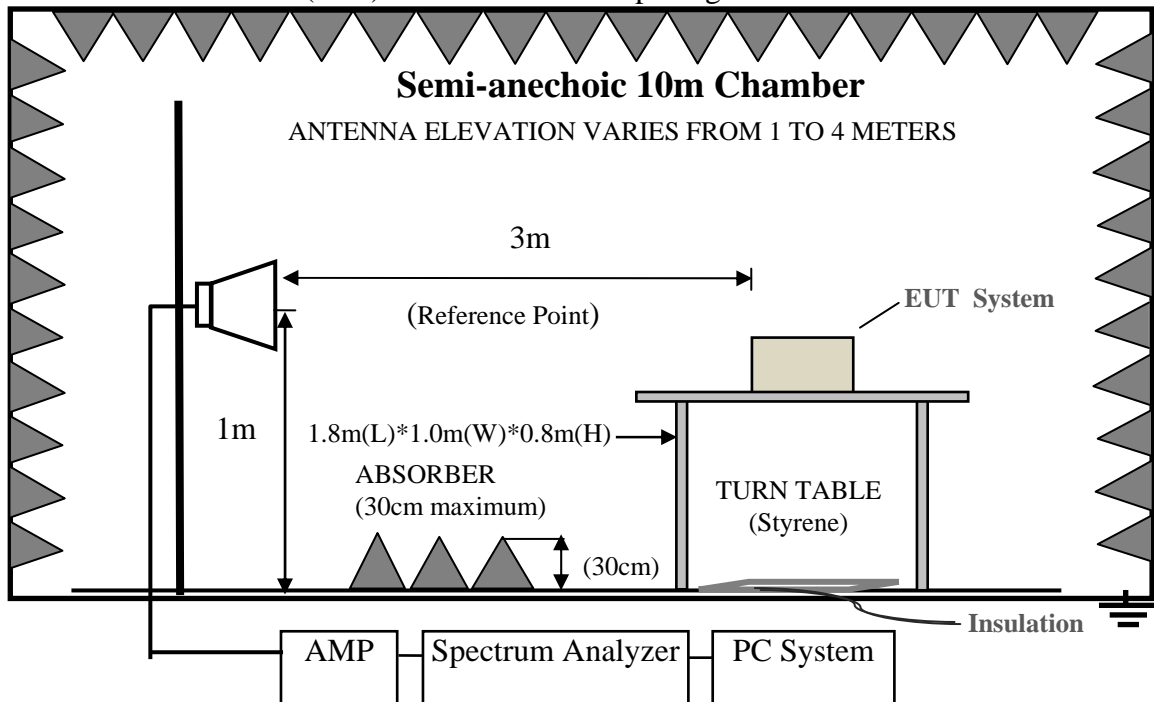
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

4.2.1. In 10m Anechoic Chamber Test Setup Diagram for 30MHz~1000MHz



4.2.2. In Anechoic (10m) Chamber Test Setup Diagram for 1-6GHz



4.3. Test Standard

EN 55032: 2012+AC: 2013, Class B

4.4. Radiated Emission Limit

All emanations from a Class B computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37
1000~3000	3	70(Peak) 50(Average)
3000~6000	3	74(Peak) 54(Average)

- Note: (1) Emission level = Antenna Factor + Cable Loss + Reading
 Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading (above 1000MHz)
 (2) The lower limit shall apply at the transition frequencies.
 (3) Distance refers to the distance in meters between the test instrument antenna and the closed point of any part of the E.U.T..

4.5. EUT Configuration on Test

The configurations of EUT are listed in Section 3.5.

4.6. Operating Condition of EUT

Same as Conducted Emission test that is listed in Section 3.6. except the test set up replaced by Section 4.2.

4.7. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the periphery of test system on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all the interface cables were changed according to EN 55032 Class B on Radiated Disturbance test.

The bandwidth setting on the test receiver (R&S ESCI) is 120 kHz.

The resolution bandwidth of the Spectrum Analyzer N9030A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 6GHz was checked and all final readings of measurement were with Peak and Average detector, measurement distance was 3m at semi-anechoic chamber. The EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. The EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. The portion of the test volume that was obstructed by absorber placed on the floor (30cm maximum).

Finally, selected operating situations at Anechoic Chamber measurement, all the test results are listed in section 4.8.

4.8. Radiated Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: LCD Monitor Model No. : E2270SW**

Test Date: Dec.02, 2016 Temperature: 22.5°C Humidity: 51.2% Pressure: 101.6kPa

For frequency range 30MHz~1GHz

The EUT with following test modes were pre-tested:

No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency
1.	AC 230V/50Hz	PC Mode	HDMI	1.8m	640*480@60Hz
2.					1280*1024@75Hz
3.					1920*1080@60Hz
4.				1.5m	1920*1080@60Hz
5.				1.2m	1920*1080@60Hz
6.		DVI	1.8m	640*480@60Hz	
7.				1280*1024@75Hz	
8.				1920*1080@60Hz	
9.		DVD Mode	HDMI	1.8m	Color Bar
10.		Standby	---	---	---
11.	AC 100V/50Hz	PC Mode	HDMI	1.8m	1920*1080@60Hz

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency	Reference Test Data No.	
						Horizontal	Vertical
1.	AC 230V/50Hz	PC	HDMI	1.8m	1920*1080@60Hz	# 4	# 3

For frequency range 1GHz~6GHz

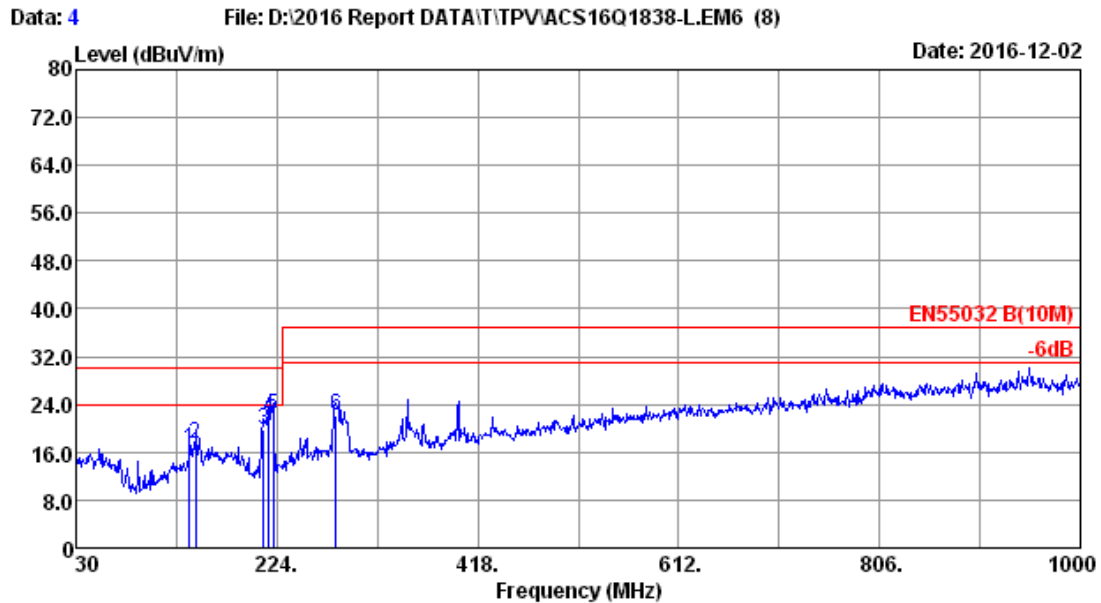
Test Date: Nov.30, 2016 Temperature: 23.5°C Humidity: 51.2% Pressure: 101.5kPa

The EUT with following test modes were pre-tested:

No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency	
1.	AC 230V/50Hz	PC Mode	VGA	1.8m	1280*1024@75Hz	
2.					1920*1080@60Hz	
3.				1.5m	1920*1080@60Hz	
4.				1.2m	1920*1080@60Hz	
5.			HDMI	1.8m	1280*1024@75Hz	
6.					1920*1080@60Hz	
7.			DVD Mode	HDMI	1.8m	Color Bar
8.			Standby	---	---	---
9.	AC 100V/50Hz	PC Mode	VGA	1.8m	1920*1080@60Hz	

The result of worst test mode is presented in the report as below and the test data are listed in next pages.

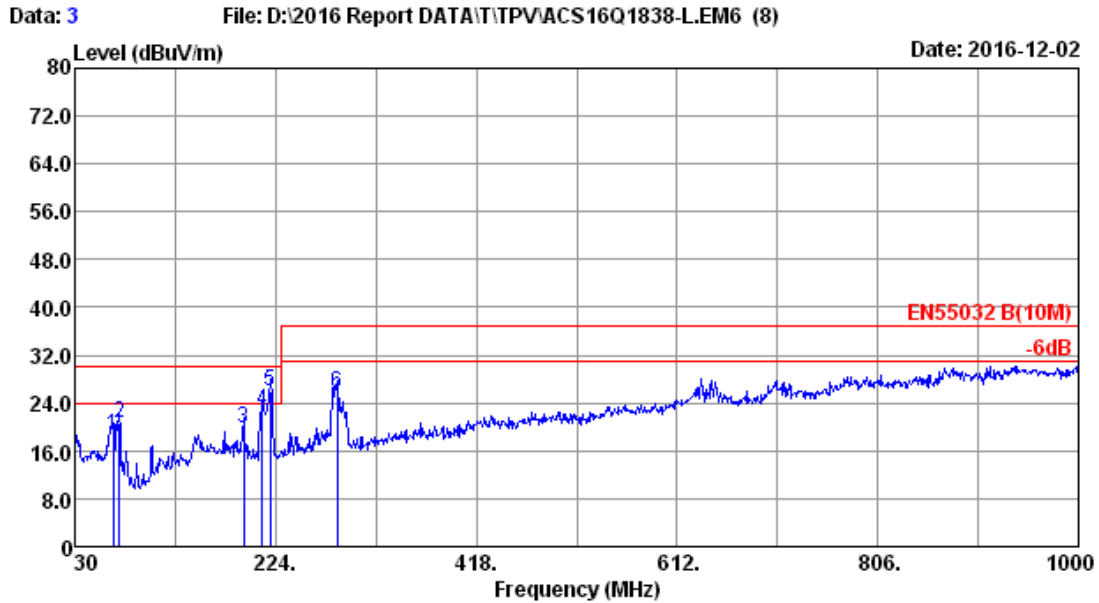
No.	Test Voltage	Test Mode	Input Port	Cable Length	Resolution & Frequency	Reference Test Data No.	
						Horizontal	Vertical
1.	AC 230V/50Hz	PC	VGA	1.8m	1920*1280@60 Hz	# 2	# 1



Site no. : 10m Chamber Data no. : 4
 Dis. / Ant. : 10m 2016 9168-429 Ant. pol. : HORIZONTAL
 Limit : EN55032 B(10M) Pre : 101.6kPa
 Env. / Ins. : 22.5°C/51.2% Engineer : Saxon
 EUT : E2270SW**
 Power rating : AC 230V/50Hz
 Test Mode : HDMI:1920*1080@60Hz
 Line:1.8m

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	139.61	12.96	6.51	-3.04	16.43	30.00	13.57	QP
2	145.43	13.00	6.52	-2.20	17.32	30.00	12.68	QP
3	211.39	9.84	6.67	3.18	19.69	30.00	10.31	QP
4	216.24	9.82	6.68	5.23	21.73	30.00	8.27	QP
5	220.12	9.81	6.69	5.62	22.12	30.00	7.88	QP
6	281.23	13.02	6.81	2.31	22.14	37.00	14.86	QP

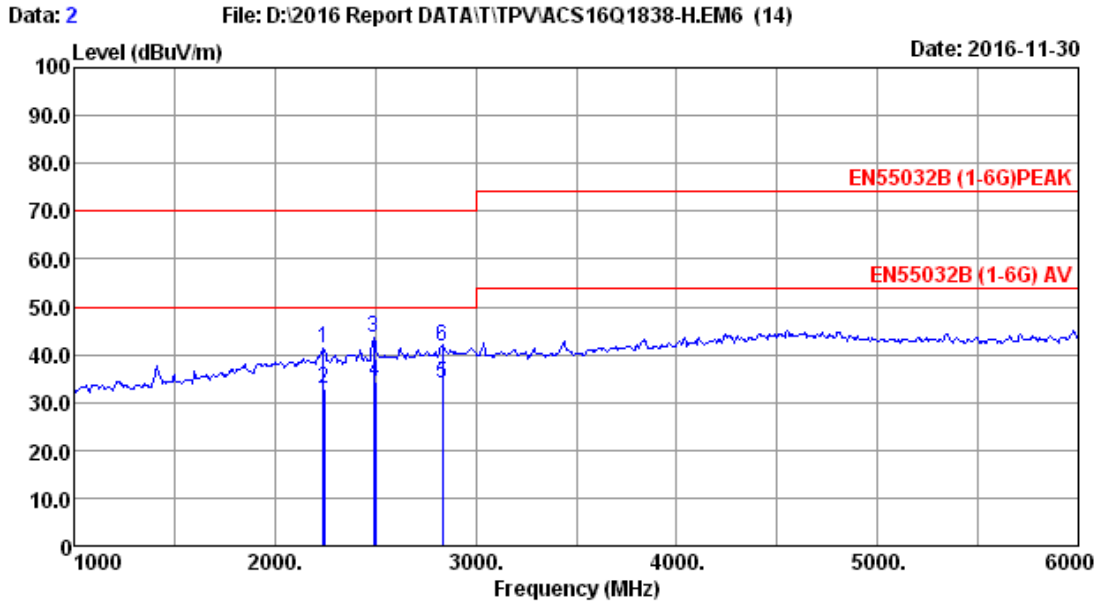
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 220.12MHz with corrected signal level of 22.12dB μ V/m. (Antenna height 4.0m; Turntable degree 117°).
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 10m Chamber Data no. : 3
 Dis. / Ant. : 10m 2016 9168-493 Ant. pol. : VERTICAL
 Limit : EN55032 B(10M) Pre : 101.6kPa
 Env. / Ins. : 22.5°C/51.2% Engineer : Saxon
 EUT : E2270SW**
 Power rating : AC 230V/50Hz
 Test Mode : HDMI:1920*1080@60Hz
 Line:1.8m

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	66.86	12.51	6.67	-0.59	18.59	30.00	11.41	QP
2	72.68	11.16	6.80	2.59	20.55	30.00	9.45	QP
3	192.96	10.48	7.53	1.67	19.68	30.00	10.32	QP
4	211.39	9.89	7.59	5.14	22.62	30.00	7.38	QP
5	219.15	9.81	7.60	8.59	26.00	30.00	4.00	QP
6	283.17	13.03	7.69	5.00	25.72	37.00	11.28	QP

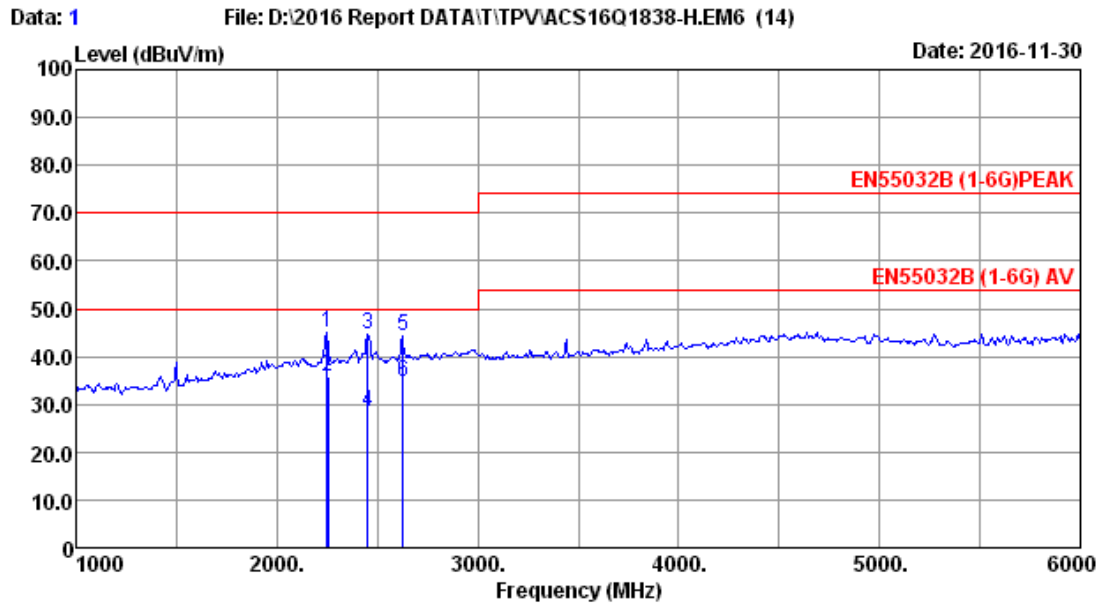
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 219.15MHz with corrected signal level of 26.00dBµV/m. (Antenna height 1.0m; Turntable degree 201°).
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 10m Chamber Data no. : 2
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : EN55032B (1-6G) PEAK Pre : 101.5kPa
 Env. / Ins. : 23.5°C/51.2% Engineer : Frank
 EUT : E2270SW**
 Power rating : AC 230V/50Hz
 Test Mode : VGA:1920*1080@60Hz
 Line:1.8m

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2240.42	27.89	2.63	44.86	34.08	41.30	70.00	28.70	Peak
2	2245.80	27.89	2.63	36.40	34.08	32.84	50.00	17.16	Average
3	2490.27	28.30	2.81	46.54	33.95	43.70	70.00	26.30	Peak
4	2499.90	28.30	2.82	37.10	33.95	34.27	50.00	15.73	Average
5	2833.46	28.30	3.07	36.39	33.78	33.98	50.00	16.02	Average
6	2835.27	28.30	3.07	44.29	33.78	41.88	70.00	28.12	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 10m Chamber Data no. : 1
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : EN55032B (1-6G) PEAK Pre : 101.5kPa
 Env. / Ins. : 23.5°C/51.2% Engineer : Frank
 EUT : E2270SW**
 Power rating : AC 230V/50Hz
 Test Mode : VGA:1920*1080@60Hz
 Line:1.8m

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	AMP factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2250.27	27.91	2.64	48.53	34.07	45.01	70.00	24.99	Peak
2	2255.79	27.91	2.64	39.40	34.07	35.88	50.00	14.12	Average
3	2450.56	28.22	2.78	47.70	33.97	44.73	70.00	25.27	Peak
4	2453.26	28.22	2.79	31.39	33.97	28.43	50.00	21.57	Average
5	2625.90	28.30	2.91	46.98	33.89	44.30	70.00	25.70	Peak
6	2627.79	28.30	2.91	37.41	33.89	34.73	50.00	15.27	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

5. PHOTOGRAPHS

5.1. Photos of Power Line Conducted Emission Test



5.2. Photos of Radiated Emission Test (In 10m Anechoic Chamber)



(In 10m Anechoic 10m Chamber Test 1GHz –6GHz)

